

Element Performance Inspection (EPI) Data Collection Tool

3.1.7 De-Icing Program (OP)

ELEMENT SUMMARY INFORMATION

Purpose of This Element (Certificate Holder's responsibility):

- To ensure that the Certificate Holder's approved De-Icing Program prevents an aircraft from taking off when frost, ice, or snow is adhering to the wings, control surfaces, propellers, engine inlets, or other critical surfaces of the aircraft.

Objective (FAA oversight responsibility):

- To determine if the Certificate Holder follows its procedures, controls, process measurements and interfaces for the De-Icing Program.
- To determine if there were any changes in the personnel identified by the Certificate Holder as having responsibility and/or authority for the De-Icing Program.

Specific Instructions:

- When answering question 1.2 in the Performance Observables section of this EPI, review the Certificate Holder's aircraft maintenance logbook entries, ASAP reports or other company reports for discrepancies that would indicate improper de-icing of its aircraft.

Related EPI(s):

- 3.1.3 Airmen Duties / Flight Deck Procedures (OP)
- 3.2.1 Dispatch / Flight Release (OP)
- 5.1.5 Station Facilities (OP)

SUPPLEMENTAL INFORMATION

Specific Regulatory Requirement(s) (SRRs):

- SRRs:
 - 119.43(b)
 - 119.43(b)(1)
 - 119.43(b)(2)
 - 119.43(c)

121.135(a)(1)
121.135(b)(1)
121.135(b)(2)
121.135(b)(3)
121.603(a)
121.629(a)
121.629(b)
121.629(c)
121.629(c)(1)(i)
121.629(c)(1)(iii)
121.629(c)(1)(iv)
121.629(c)(2)
121.629(c)(2)(i)
121.629(c)(2)(ii)
121.629(c)(2)(iii)
121.629(c)(2)(iv)
121.629(c)(2)(v)
121.629(c)(2)(vi)
121.629(c)(2)(vii)
121.629(c)(3)
121.629(c)(3)(i)
121.629(c)(3)(ii)
121.629(c)(3)(iii)
121.629(c)(4)
121.629(d)
A023

Related CFR(s) & FAA Policy/Guidance:

- Related CFRs:
Intentionally left blank
- FAA Policy/Guidance:
AC 120–58
AC 120–60

EPI SECTION 1 – PERFORMANCE OBSERVABLES

Objective: (FAA oversight responsibility): To determine if the Certificate Holder follows its procedures, controls, process measures and interfaces for the De-Icing Program.

Tasks

To meet this objective, the inspector must accomplish the following tasks:

- 1 Review the information listed in the Supplemental Information section of this data collection tool.
- 2 Review the policies, procedures, instructions and information for the De-Icing Program contained in the Certificate Holder's manual.
- 3 Review the associated SAI for this element with emphasis on the controls, process measurements and interface attribute sections.
- 4 Observe the De-Icing Program to gain an understanding of the procedures, instructions and information contained in the Certificate Holder's manual.
- 5 Discuss the De-Icing Program with the personnel (other than management) that perform the duties and responsibilities required by the program.

Questions

To meet this objective, the inspector must answer the following questions:

1. Were the following Performance Measures met:

<p>1.1 Were the Certificate Holder's aircraft wings, control surfaces, propellers, engine inlets, or other critical surfaces free of frost, ice, or snow at the final checkpoint?</p> <p><i>Related performance JTIs:</i></p> <ul style="list-style-type: none"> • Check at the Certificate Holder's ramp that the carrier's aircraft are ground deiced/anti-iced in accordance with the Certificate Holder's approved ground deicing/anti-icing procedures. <p><i>Sources:</i> 121.629(c)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
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- 1.2 Were aircraft wings, control surfaces, propellers, engine inlets, or other critical surfaces free of frost, ice, or snow at takeoff?

<p><i>Related performance JTIs:</i></p> <ul style="list-style-type: none"> • Check at the Certificate Holder's ramp or the aircraft that no aircraft takes off when frost, ice, or snow is adhering to the wings, control surfaces, propellers, engines inlets, or other critical surfaces, or contrary to the Certificate Holder's ground deicing/anti-icing procedures. <p><i>Sources:</i> 121.629(b); 121.135(a)(1); 121.135(b)(1)</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
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- 2 Were the Certificate Holder's policies, procedures, instructions and information, contained in its manual, for the De-Icing Program followed?

<p><i>Related performance JTIs:</i></p> <ul style="list-style-type: none"> • Check at the Certificate Holder's dispatch center that no person dispatches an aircraft, when in the opinion of the pilot in command or dispatcher, icing or ground icing conditions are expected or met that might adversely affect the safety of the flight in accordance with the Certificate Holder's procedures. 	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
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<p><i>Sources:</i> 121.629(a); 121.135(b)(1); 121.135(a)(1)</p> <ul style="list-style-type: none"> • Check at the Certificate Holder's specified location that no person releases an aircraft, when in the opinion of the pilot in command or person with authority to release the aircraft under supplemental operations, icing or ground icing conditions are expected or met that might adversely affect the safety of the flight in accordance with the Certificate Holder's procedures. <i>Sources:</i> 121.629(a); 121.135(b)(1); 121.135(a)(1) • Check at the Certificate Holder's training center or specified location that the carrier's effected personnel were trained and/or qualified in accordance with the Certificate Holder's procedures. <i>Sources:</i> 121.629(c)(2)(i); 121.629(c)(2)(ii); 121.629(c)(2)(iii); 121.629(c)(2)(iv); 121.629(c)(2)(v); 121.629(c)(2)(vi); 121.629(c)(2)(vii) • Check at the Certificate Holder's ramp, or geographic location, the carrier has available competent personnel and adequate facilities and equipment to conduct operations in icing conditions in accordance with the Certificate Holder's procedures. <i>Sources:</i> AC-120-58 121.105; 121.123; 121.539 • Check at the Certificate Holder's aircraft cockpit or dispatch center that no person continues to operate an aircraft enroute or lands an aircraft, when in the opinion of the pilot in command or dispatcher icing conditions are expected or met that might adversely affect the safety of the flight in accordance with the Certificate Holder's procedures. <i>Sources:</i> 121.629(a); 121.135(a)(1); 121.135(b)(1) • Check at the Certificate Holder's aircraft cockpit that the carrier's holdover timetables were utilized in accordance with the Certificate Holder's procedures. <i>Sources:</i> FSAT XX-XX 121.629(c)(3); 121.629(c)(3)(i); 121.629(c)(3)(ii); 121.629(c)(3)(iii) • Check at the Certificate Holder's aircraft cockpit that the carrier's pretakeoff check and pretakeoff contamination check (if required) were performed in accordance with the Certificate Holder's procedures. <i>Sources:</i> 121.629(c)(4) • If the Certificate Holder operates under 121.629(d), check at the Certificate Holder's aircraft cockpit that an outside the aircraft check is accomplished in accordance with the Certificate Holder's procedures, within 5 minutes prior to beginning takeoff, any time conditions are such that frost, ice, or snow may reasonably be expected to adhere to the aircraft. <i>Sources:</i> AC-120-60, Paragraph 11 121.629(d) 	
3 Were the De-Icing Program controls followed?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
4 Did the records for the De-Icing Program comply with the instructions provided in the Certificate Holder's manual?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
5 Were the process measurements for the De-Icing Program effective in identifying problems or potential problems and providing corrective action for them?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain
6 Did personnel properly handle the associated interfaces by complying	<input type="checkbox"/> Yes

with other written policies, procedures, instructions and information that are related with this element?

☐ No, Explain

<i>EPI SECTION 1 – PERFORMANCE OBSERVABLES –Drop Down Menu</i>
1. Personnel.
2. Tools and Equipment.
3. Technical Data.
4. Procedures, policies or instructions or information.
5. Materials.
6. Facilities.
7. Controls.
8. Process Measures.
9. Interfaces.
10. Desired Outcome.
11. Other.

EPI SECTION 2 – MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES

Objective: To determine if the person identified by the Certificate Holder having responsibility and/or authority for the De-Icing Program is qualified, knowledgeable, and recognizes that responsibility and/or authority. (The person with the authority may or may not be the person with the responsibility.)

Tasks

To meet this objective, the inspector must accomplish the following tasks:

1 Identify the person that has overall responsibility for the De-Icing Program.

2 Identify the person that has overall authority for the De-Icing Program.

NOTE: If no personnel or major program changes (as defined by the Principal Inspector) affecting the responsibility or authority attributes for this element have occurred since the last SAI and/or EPI was accomplished, then do not perform tasks 3 – 6 below. Answer questions 2.1 & 2.2 below, and provide the name/title.

3 Review the duties and responsibilities for those who manage the De-Icing program documented in the Certificate Holder's manual.

4 Review the appropriate organizational chart.

5 Discuss the De-Icing program with the management personnel identified in Tasks 1 and 2.

6 Evaluate the qualifications and work experience of the management personnel identified in Tasks 1 and 2

Questions

To meet this objective, the inspector must answer the following questions:

2. Are the following aspects of the Management Responsibility and Authority Attribute addressed in the De-Icing Program:

2.1 Is there a clearly identified person who is responsible for the quality of the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain Name/Title: <input type="text"/>
2.2 Is there a clearly identified person who has authority to establish and modify the Certificate Holder's policies, procedures, instructions and information for the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain Name/Title: <input type="text"/>
2.3 Does the responsible person know that he/she has responsibility for the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.4 Does the person with authority know that he/she has authority for the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.5 Does the person with responsibility for the De-Icing Program meet the qualification standards?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.6 Does the person with authority to establish and modify the De-Icing Program meet the qualification standards?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain

	<input type="checkbox"/> Not Applicable
2.7 Does the person with responsibility understand the controls, process measurements, and interfaces associated with the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.8 Does the person with authority understand the controls, process measurements, and interfaces associated with the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.9 Does the responsible person know who has authority to establish and modify the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable
2.10 Does the individual with authority know who has the responsibility for the De-Icing Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No, Explain <input type="checkbox"/> Not Applicable

<i>EPI SECTION 2 – MANAGEMENT RESPONSIBILITY & AUTHORITY OBSERVABLES –Drop Down Menu</i>	
1. Assignment of responsibility.	
2. Assignment of authority.	
3. Does not understand procedures, policies or instructions and information.	
4. Does not understand controls.	
5. Does not understand process measurements.	
6. Does not understand interfaces.	
7. Span of control.	
8. Position vacant.	
9. Other.	